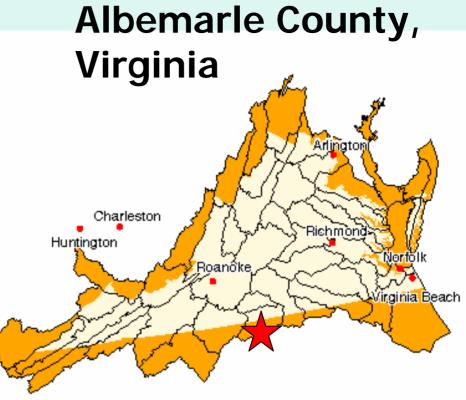
### Mainstreaming Biofiltration as a Stormwater Practice

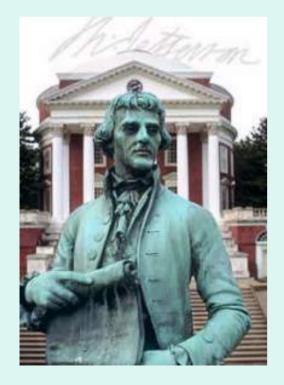
David J. Hirschman
Water Resources Manager
Albemarle County Department of Community Development





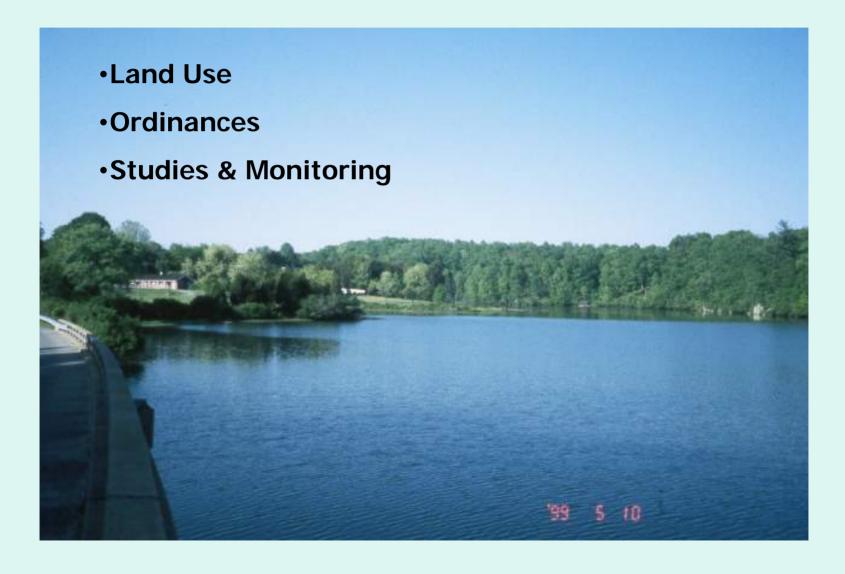








## South Fork Rivanna Reservoir – History of Watershed Work





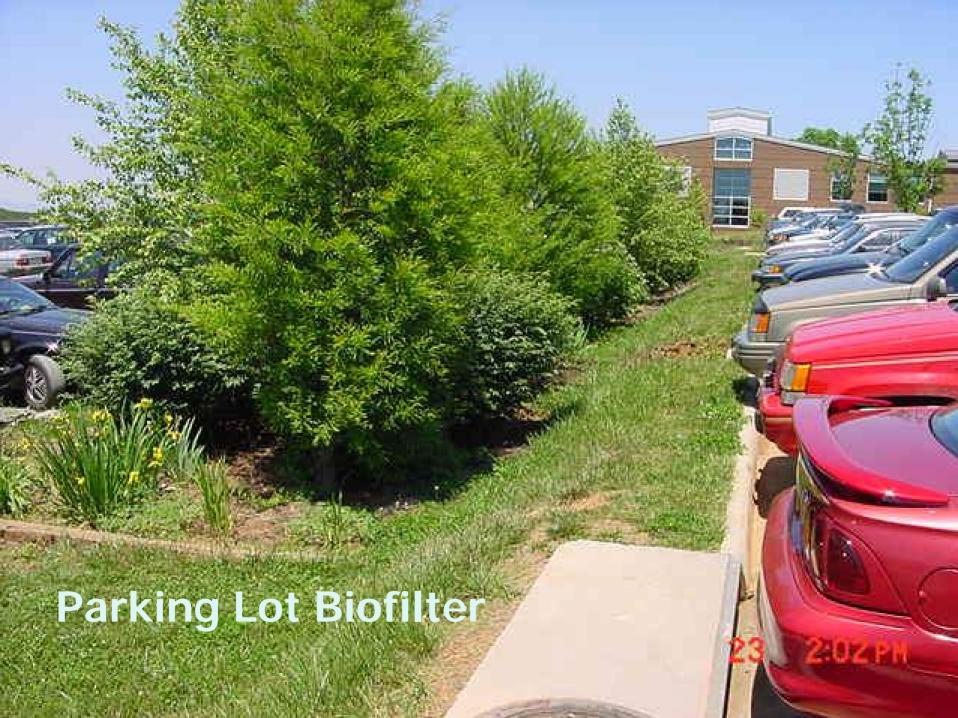


- Municipal Demonstration Projects
- DesignStandards
- 3. Construction Inspection

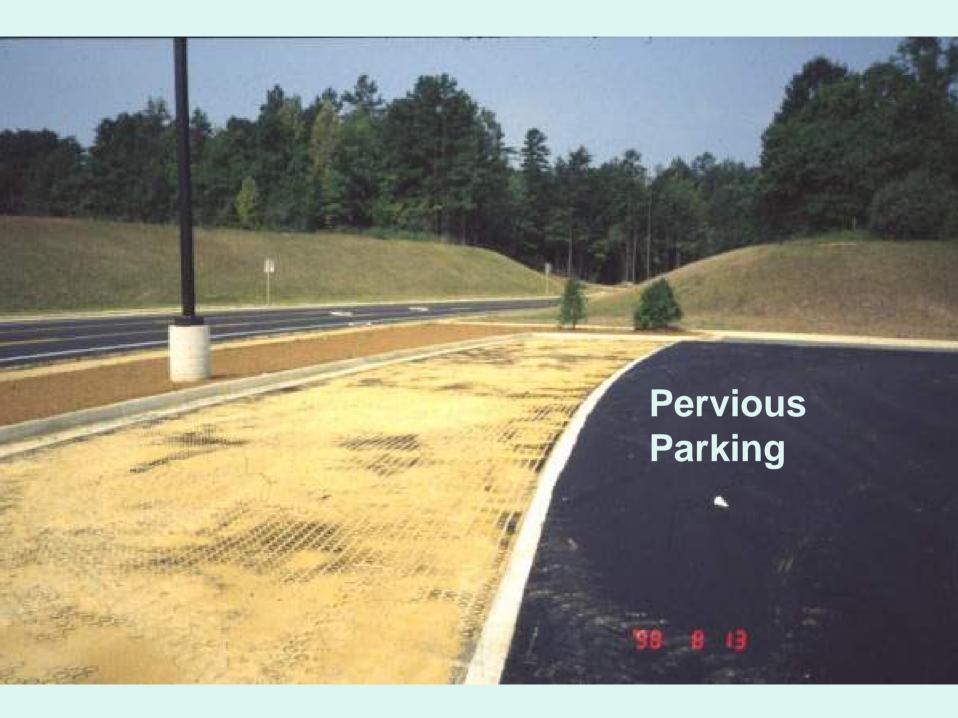


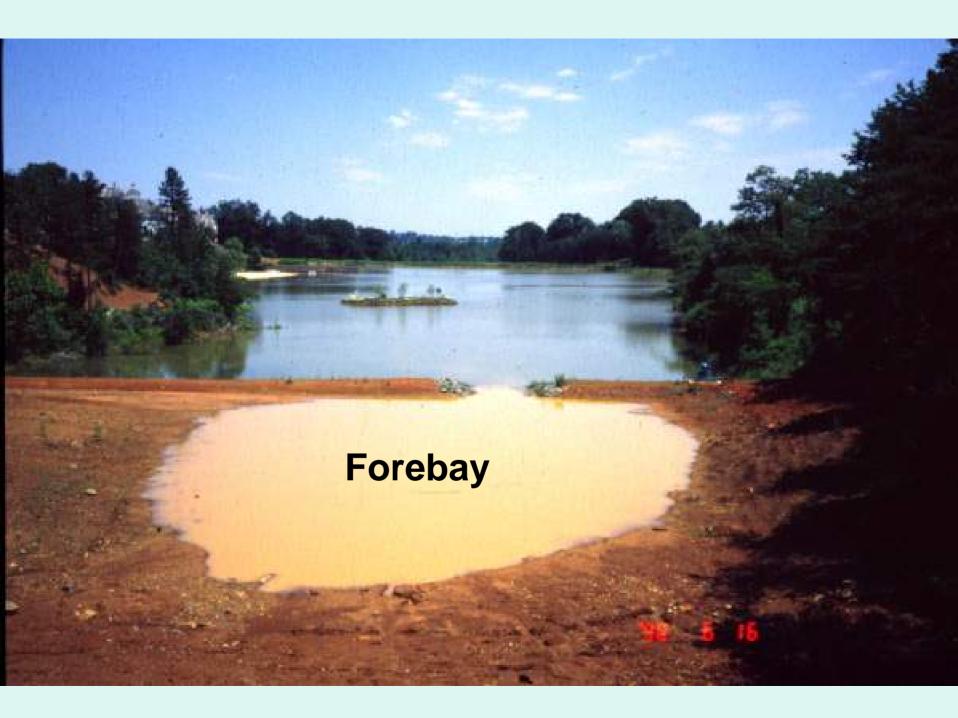
## Why Demonstration BMPs?



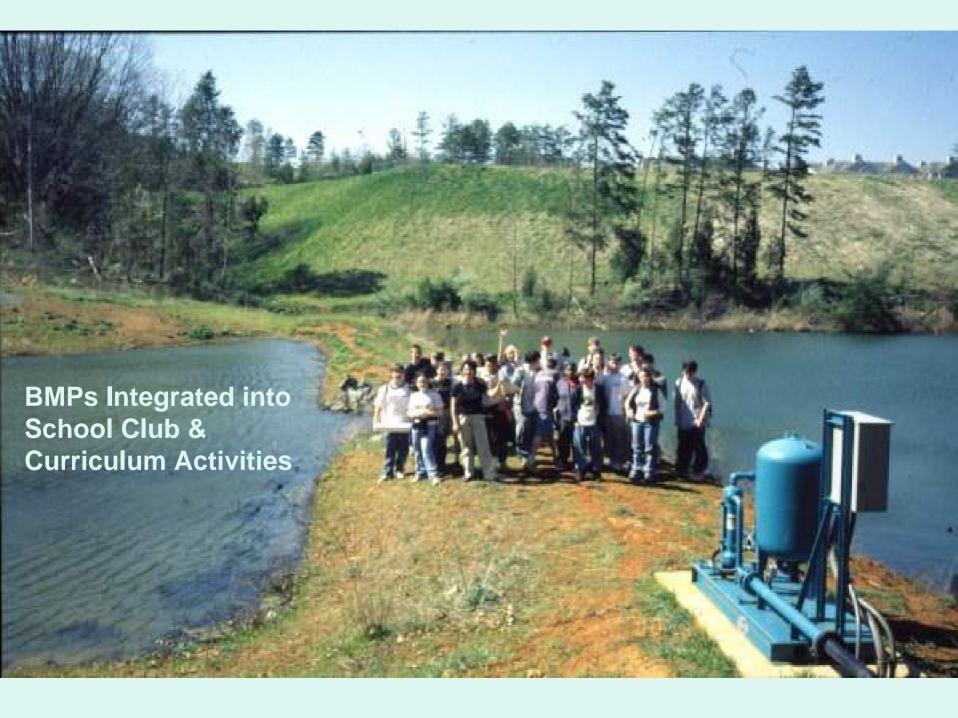














**Two Approaches to Pervious Parking** 





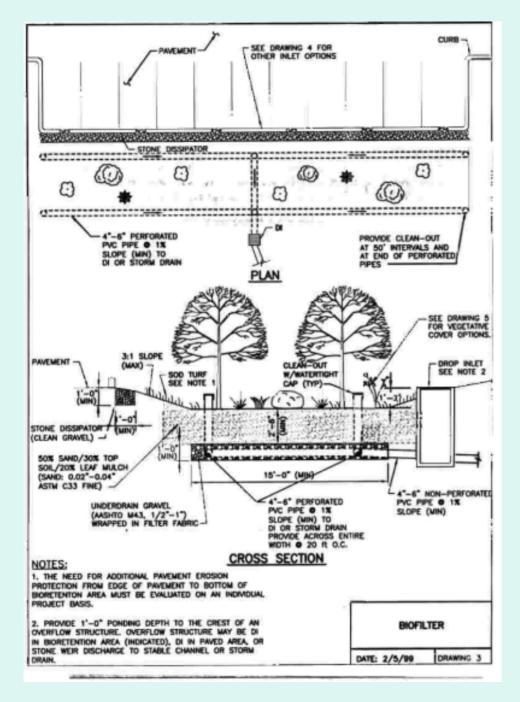












# DesignStandards

- Landscape Setting
- Soil
- E&S Retrofits
- Credit for Non-Structural























#### Silt Trap Converted to Biofilter

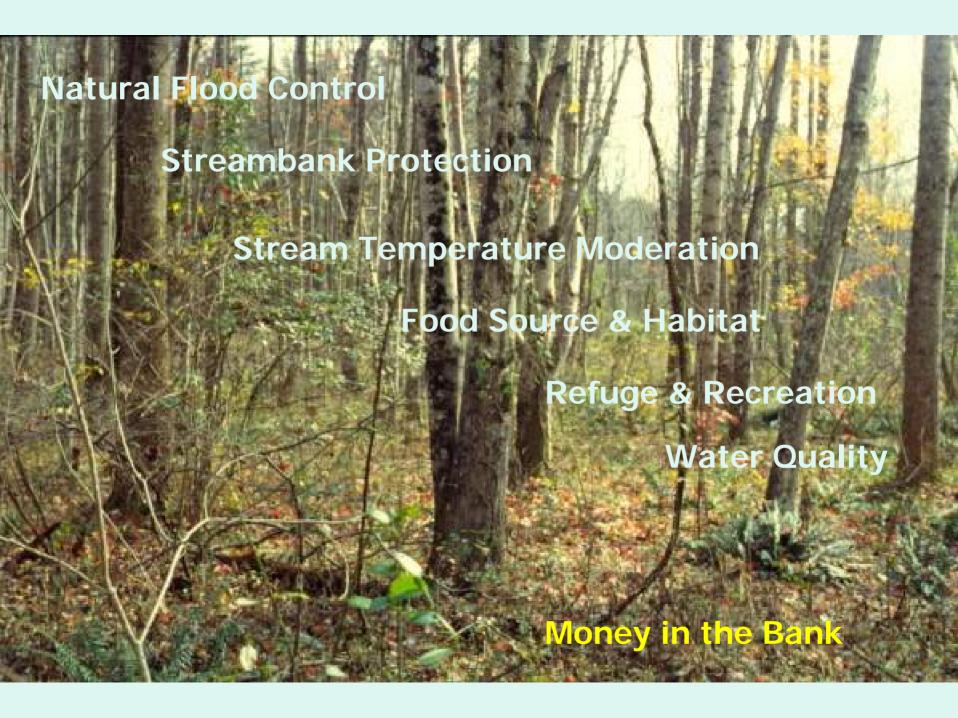




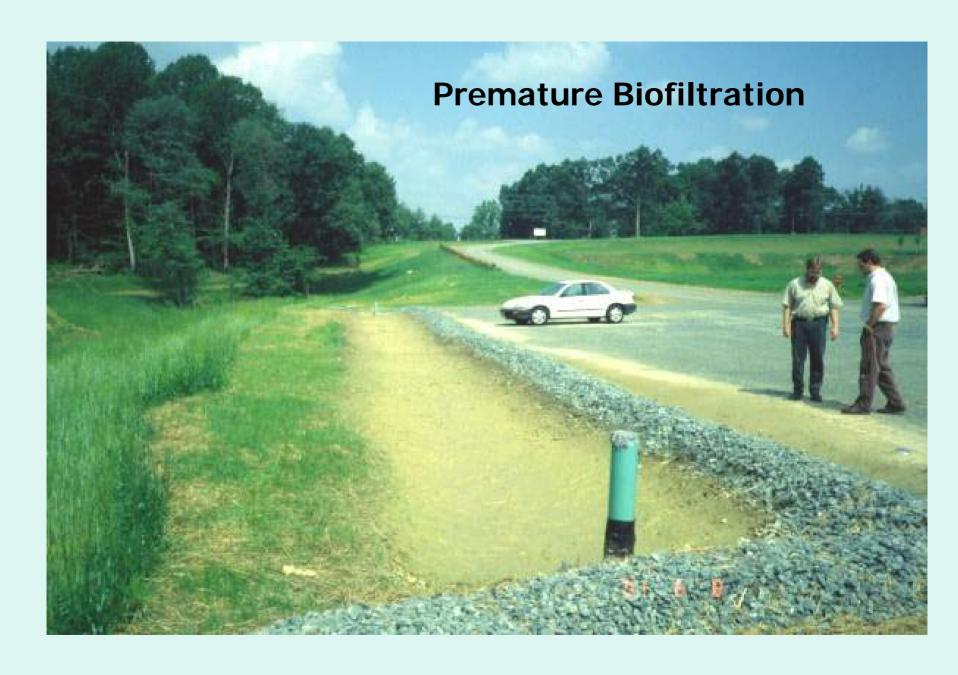
## Non-Structural Practices: Credits Towards Water Quality Requirements

- Stream Buffer Enhancement & Protection
- LID
- Open Space Protection

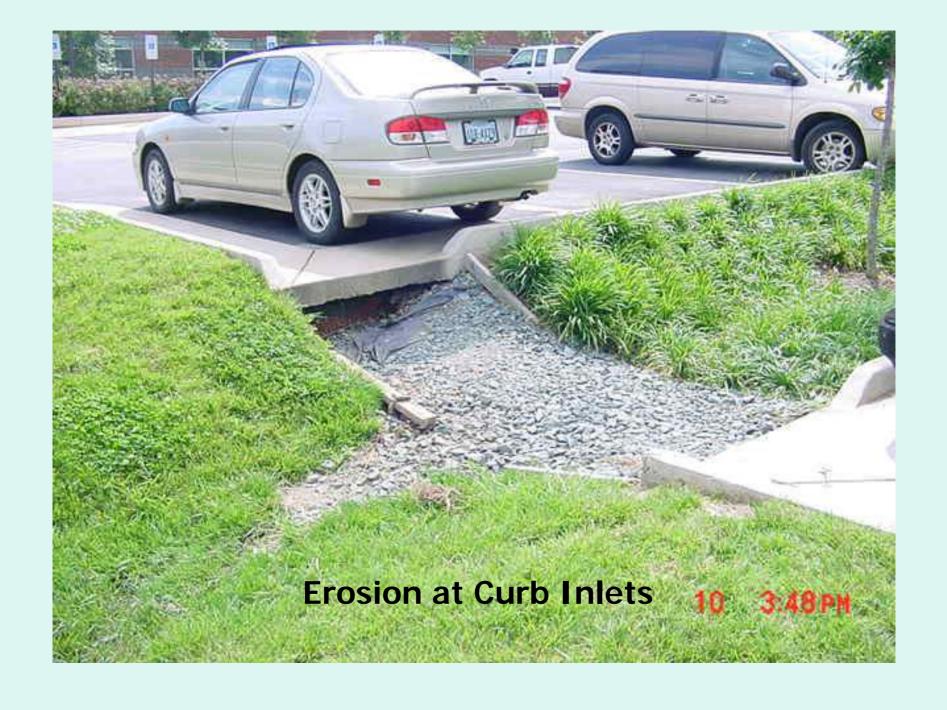














#### Water Can't Get In

**Water Gets Out** 



#### Clogged, Water Stands Too Long







**Bad News Travels Fast** 

### Conclusions

- DemonstrationSites
- Design Standards
- ConstructionInspection



Technology approach & Design approach